

Date: Tue, 16 Mar 93 08:07:25 PST  
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>  
Errors-To: Info-Hams-Errors@UCSD.Edu  
Reply-To: Info-Hams@UCSD.Edu  
Precedence: Bulk  
Subject: Info-Hams Digest V93 #327  
To: Info-Hams

Info-Hams Digest                      Tue, 16 Mar 93                      Volume 93 : Issue    327

Today's Topics:

75 ohm hardline, how to use?  
A few QRP related questions.  
ARRL BULLETIN 27    ARLB027  
ARRL BULLETIN 28    ARLB028  
ARRL BULLETIN 29    ARLB029  
DESPERATE...NEED TO KNOW FACTS CONCERNING LEGALITY  
FT-470 Mod's  
HP 8553B Spectrum Analyzer RF plugin for sale  
HRO Incident  
Icom IC-22S manuals needed  
No more license exams for me...  
Repair my HW-101??  
SPACE BULLETIN 007    ARLS007  
Yaesu FT-530 vs. TH-28A (2 msgs)

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>  
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>  
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available  
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text  
herein consists of personal comments and does not represent the official  
policies or positions of any party. Your mileage may vary. So there.

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Date: Mon, 15 Mar 1993 14:10:54 GMT  
From: usc!howland.reston.ans.net!gatech!kd4nc!ke4zv!gary@network.UCSD.EDU  
Subject: 75 ohm hardline, how to use?  
To: info-hams@ucsd.edu

In article <93073.013438PTS102@psuvm.psu.edu> <PTS102@psuvm.psu.edu> writes:  
>The Penn State Amateur Radio Club (K3CR) is in the process of assembling a  
>VHF/UHF station, primarily for satellite use. We have the rig (Yaesu FT-736R),  
>crossed Yagis for 2m and 400, and a pair of rotors; all we need is feedline.

>A local cable TV company has offered to give us some leftover 75 ohm hardline,  
>which we would like to use if at all possible. Even if we have to spend some  
>money to adapt the hardline to our 50 ohm system, it would still be preferable  
>to buying new cable (We are looking at a run of 100 feet each for 2m and 440). o  
>

>My question is:

> How do we adapt the 75 ohm coax to our 50 ohm antennas and rig?

>

>This is what we have come up with so far:

> a) We will have to buy 75 ohm connectors (probably N) for the hardline, so  
> any adapter must be physically compatible with these connectors.  
> b) Any loss involved should be better than the loss of the best 50 ohm coax  
> that we could buy with the money we spend on our matching system.

>

>Our options include:

> - Use the coax as-is. This would give us a built-in 1.5:1 impedance  
> mismatch, and we would still have the physical connector mismatch.

I've done this. The loss is low enough that the 1.5:1 SWR isn't a big concern for most things. There are standard type N fittings available for the common CATV hardline, or you can kludge on some PL259s with a couple of plumbing fittings.

> - Tune the antenna matching arms to 75 ohms. We would have to re-tune four  
> T-fed Yagis, and replace the phasing sections with 75 ohm coax. This  
> has a high tedious-work factor and a formidable screw-up factor, and  
> it doesn't solve the mismatches at the rig.

Tuning the antenna can help, but you need the right instrument, a 75 ohm SWR bridge, or you'll be lost. A simple tuner can be built to match the rig end of the cable to 75 ohms.

> - Use transformers. ZD Engineering (73, November 1992, P. 27) sells  
> units for various hardlines at \$34.95/pair. What puzzles me is that  
> they are sold by frequency; does this mean that they are frequency  
> sensitive, with a center frequency and poor performance on band edges?  
> Also, there was an article a few years ago in 73 on building such a  
> transformer.

This is probably the best solution. The ZD Engineering transformers are quarterwave sections of air line. They are designed to fit directly on the CATV cable through a compression fitting (supplied), and they have a type N fitting on the other end. Being quarterwave lines, they are frequency selective, but do fine across the important parts of 2 meters and 70 cm. Considering the cost of hardline connectors, ZD is a bargain.

Gary

--

Gary Coffman KE4ZV		You make it,		gatech!wa4mei!ke4zv!gary
Destructive Testing Systems		we break it.		uunet!rsiatl!ke4zv!gary
534 Shannon Way		Guaranteed!		emory!kd4nc!ke4zv!gary
Lawrenceville, GA 30244				

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Date: Mon, 15 Mar 1993 16:11:55 GMT  
From: usc!howland.reston.ans.net!spool.mu.edu!torn!nott!bnrgate!bcars267!bnr.ca!  
babineau@network.UCSD.EDU  
Subject: A few QRP related questions.  
To: info-hams@ucsd.edu

I saw the recent posting by Jim Speer, K5YUT regarding the new MFJ QRP rigs, my question is have these rigs been reviewed in any of the Amateur Magazines yet? If so, I would appreciate it if someone could let me know what magazine and what issue.

I've never owned a rig which covers 30m. Is this band usable pretty much around the clock? I assume it must share some of the properties of 20/40 meters. Does this seem like a good choice for a single band QRP field day station?

I know that there is a book which has been published specifically on mods for the Heath HW-8. Can someone give me a pointer to a mail-order source for this book?

Thanks in advance,

Michael, VE3WMB

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+++++
|Michael Babineau          | BITNET: babineau@BNR.CA          |
|Bell Northern Research Ltd.| UUCP  : ..!uunet!bnrgate!bmerh812!babineau |
|Ottawa, ON. CANADA       |          ..!psuvax!BNR.CA.bitnet!babineau |
+++++
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Date: Sun, 14 Mar 93 02:20:27 GMT  
From: usc!zaphod.mps.ohio-state.edu!cis.ohio-state.edu!mstar!n8emr!  
bulletin@network.UCSD.EDU  
Subject: ARRL BULLETIN 27 ARLB027  
To: info-hams@ucsd.edu

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| Automatic relayed from packet radio via |

| N8EMR's Ham BBS, 614-895-2553 |

=====

ZCZC AG68  
QST DE W1AW  
ARRL BULLETIN 27 ARLB027  
FROM ARRL HEADQUARTERS NEWINGTON CT  
MARCH 12, 1993  
RELAYED BY KB8NW/OBS & BARF-80 BBS  
TO ALL RADIO MATEURS

SB QST ARL ARLB027  
ARLB027 449 MHZ PLAN AIRED

THE FCC ON MARCH 10 AGREED TO ISSUE A NOTICE OF PROPOSED RULEMAKING  
AND NOTICE OF INQUIRY ON THE SUBJECT OF WIND PROFILER RADARS (ET  
DOCKET 93-59).

THE FCC SAID IT 'HAS PROPOSED TO ALLOCATE THE 449 MHZ BAND FOR  
WIND PROFILER RADAR SYSTEMS (WIND PROFILERS) AND REQUESTED COMMENT  
ON WHETHER WIND PROFILERS ALSO SHOULD BE ACCOMMODATED IN THE 915 MHZ  
BAND, AS PROPOSED BY RADIAN CORPORATION, OR IN SOME OTHER FREQUENCY  
BAND .... THE 449 MHZ BAND THAT THE COMMISSION IS PROPOSING FOR WIND  
PROFILER RADARS CURRENTLY IS ALLOCATED ON A PRIMARY BASIS FOR  
GOVERNMENT RADIOLOCATION OPERATIONS BY THE MILITARY.

'IN ADDITION, THE 449 MHZ BAND IS ALLOCATED ON A SECONDARY BASIS  
TO THE AMATEUR RADIO SERVICE AND TO GOVERNMENT AND NON-GOVERNMENT  
RADIOLOCATION SYSTEMS FOR COASTAL RADARS.'

A MAJOR TOPIC OF THE DOCKET PROCEEDING IS EXPECTED TO BE THE  
EXACT NATURE OF THE SHARING ARRANGEMENT.  
NNNN

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Date: Sun, 14 Mar 93 02:20:28 GMT  
From: usc!zaphod.mps.ohio-state.edu!cis.ohio-state.edu!mstar!n8emr!  
bulletin@network.UCSD.EDU  
Subject: ARRL BULLETIN 28 ARLB028  
To: info-hams@ucsd.edu

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| Automatic relayed from packet radio via |  
| N8EMR's Ham BBS, 614-895-2553 |

=====

ZCZC AG69

QST DE W1AW  
ARRL BULLETIN 28 ARLB028  
FROM ARRL HEADQUARTERS NEWINGTON CT  
MARCH 12, 1993  
RELAYED BY KB8NW/OBS & BARF-80 BBS  
TO ALL RADIO AMATEURS

SB QST ARL ARLB028  
ARLB028 902 MHZ BAND NEWS

THE FCC HAS PROPOSED NEW RULES TO ALLOW GREATER USE OF THE  
902-928 MHZ BAND FOR SO-CALLED AUTOMATIC VEHICLE MONITORING  
SYSTEMS. THE PROPOSED NEW RULES WOULD REPLACE INTERIM RULES  
ADOPTED IN 1974.

AN FCC NEWS RELEASE SAYS, ''THE COMMISSION PROPOSED TO EXPAND THE  
SERVICE TO ENCOMPASS LOCATION OF ALL OBJECTS, ANIMATE AND INANIMATE,  
AND TO A LOW LICENSEES TO PROVIDE SERVICE ON A PRIVATE CARRIER BASIS  
TO INDIVIDUALS, THE FEDERAL GOVERNMENT, AND PART 90 ELIGIBLES. THE  
COMMISSION ALSO PROPOSED TO RENAME THE AVM SERVICE AS THE LOCATION  
AND MONITORING SERVICE (LMS) AND TO DEFINE LMS AS THE USE OF  
NON-VOICE SIGNALLING METHODS FROM AND TO RADIO UNITS TO MAKE KNOWN  
THE LOCATION OF SUCH UNITS.

''COMMENTS ARE REQUESTED ON THIS PROPOSAL AND ON WHETHER LMS SYSTEMS  
AND OTHER ENTITIES CURRENTLY OCCUPYING THE 902-928 MHZ BAND WILL BE  
CAPABLE OF HANDLING ANY INCREASED CONGESTION.

''IN THE 902-928 MHZ BAND, THE COMMISSION PROPOSED THAT WIDE-BAND  
AND NARROW-BAND LMS SYSTEM NOT BE LICENSED ON THE SAME SPECTRUM.  
THE COMMISSION PROPOSED THE WIDE-BAND LMS SYSTEMS BE LICENSED ON  
THE 904-912 AND 918-926 MHZ BANDS AND THE NARROW-BAND LMS SYSTEMS  
BE LICENSED ON THE 902-904, 912-918, AND 926-928 MHZ BANDS. THE  
COMMISSION BELIEVES THAT WIDEBAND SYSTEMS ARE CAPABLE OF OPERATING  
IN A SHARED ENVIRONMENT, WITH COOPERATION AMONG THE VARIOUS  
LICENSEES, BUT SOLICITS COMMENTS ON THE NEED AND DESIRABILITY OF  
PROVIDING FOR EXCLUSIVITY FOR SOME PERIOD OF TIME....''  
NNNN

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Date: Sun, 14 Mar 93 02:20:28 GMT  
From: usc!zaphod.mps.ohio-state.edu!cis.ohio-state.edu!mstar!n8emr!  
bulletin@network.UCSD.EDU  
Subject: ARRL BULLETIN 29 ARLB029  
To: info-hams@ucsd.edu

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| Automatic relayed from packet radio via |  
| N8EMR's Ham BBS, 614-895-2553 |  
=====

ZCZC AG70  
QST DE W1AW  
ARRL BULLETIN 29 ARLB029  
FROM ARRL HEADQUARTERS NEWINGTON CT  
MARCH 12, 1993  
RELAYED BY KB8NW/OBS & BARF-80 BBS  
TO ALL RADIO AMATEURS

SB QST ARL ARLB029  
ARLB029 RF GUIDELINES PROPOSED

THE FCC HAS PROPOSED CHANGING ITS GUIDELINES FOR EVALUATING  
ENVIRONMENTAL RF RADIATION, TO REFLECT THE GUIDELINES ADOPTED IN  
1992 BY THE AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) AND THE  
INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS, INC. (IEEE).

'THE NEW GUIDELINES DIFFER SIGNIFICANTLY FROM THOSE THEY REPLACE,'  
THE COMMISSION SAID. 'FOR EXAMPLE TWO 'TIERS' OF EXPOSURE LEVELS  
ARE NOW RECOMMENDED, ONE FOR 'CONTROLLED' ENVIRONMENTS, AND ANOTHER,  
GENERALLY MORE RESTRICTIVE, FOR 'UNCONTROLLED' ENVIRONMENTS. ALSO,  
NEW RESTRICTIONS ARE PLACED ON CURRENTS INDUCED IN THE HUMAN BODY BY  
RF FIELDS BELOW 100 MHZ.

'ANOTHER SIGNIFICANT CHANGE IS THE IMPOSITION OF STRICTER  
LIMITATIONS ON AUTOMATIC EXCLUSIONS FOR LOW-POWER DEVICES, SUCH AS  
HAND-HELD RADIOS AND TELEPHONES, BASED ON OPERATING POWER. THE 1982  
GUIDELINES GENERALLY EXCLUDED SUCH DEVICES WITH POWERS OF SEVEN  
WATTS OR LESS. THE NEW GUIDELINES CONTAIN MORE COMPLEX AND MORE  
RESTRICTIVE CRITERIA FOR SUCH EXCLUSIONS, WITH ALLOWABLE POWER  
DECREASING AS FREQUENCY INCREASES.'

NNNN

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Date: Sat, 13 Mar 93 19:12:55 GMT  
From: usc!zaphod.mps.ohio-state.edu!mstar!n8emr!gws@network.UCSD.EDU  
Subject: DESPERATE...NEED TO KNOW FACTS CONCERNING LEGALITY  
To: info-hams@ucsd.edu

In article <103360159@hpfco.FC.HP.COM> perry@hpfco.FC.HP.COM (Perry Scott)  
writes:

>> I am desperate to find out if it is legal to own a ham radio  
>> that has been modified to TRANSMIT out of band.  
>> ie. a Yaesu FT-23R that can be modified to transmit between



-----  
Date: 15 Mar 93 18:22:37 GMT  
From: news-mail-gateway@ucsd.edu  
Subject: HRO Incident  
To: info-hams@ucsd.edu

Fred Lloyd says:

> and suddenly your phone goes dead  
> quiet (yes, many hams will abandon all dealer loyalty to save less than  
> a dollar).

Well, if I bought equipment at the rate you do, Fred, I'd have to start abandoning dealers for a lot less than a dollar. 8-)

steve - W3GRG  
mosier@uncg.bitnet  
mosier@iris.uncg.edu                   dit   dit

-----  
Date: Mon, 15 Mar 93 17:44:39 GMT  
From: mnemosyne.cs.du.edu!nyx!mwgordon@uunet.uu.net  
Subject: Icom IC-22S manuals needed  
To: info-hams@ucsd.edu

If any one has any repair manuals or user manuals for an IC-22S, I would be more than happy to pay any duplication and postage charges for a copy. I recently got one (free) that someone has passed reverse voltage into. Unfortunately, the idiot must have jumpered the protective diode and done it again because he blew out a transistor and resistor. (Damn "chicken bander".)

The IC-22S is a 25-30 watt diode programmable 2m mobile that is surprisingly small and nicely constructed. Too bad that it looks like a CB. (No, that's a feature, less theft potential.)

Please email any replies, I can never get into this newsgroup before some messages expire. Any help would be most appreciated.

Mike Gordon   N9LOI   mygordon@nyx.cs.du.edu



-----  
Date: 15 Mar 93 10:43:33 CST  
From: usc!sdd.hp.com!caen!kuhub.cc.ukans.edu!heacock@network.UCSD.EDU  
Subject: No more license exams for me...  
To: info-hams@ucsd.edu

Last April I upgraded from Technician+code to General and managed to pass the 20 wpm code test in the process, leaving me one year to upgrade to Extra without having to take another 20 wpm test. Last Friday night was just about my last (convenient) chance to do it...and I \*did\* it!

Thanks to those of you who have served as "e-mail elmers" over the last couple of years. And for those of you who are tracking license arrival delay times, I'll let you know when my new ticket comes (that's the \*real\* reason for this announcement, of course... ;-)

73 de n0nzq/ae

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+-----+  
Doug Heacock, Academic Computing	heacock@kuhub.cc.ukans.edu
Services, The University of Kansas	heacock@ukanvax.bitnet
Lawrence, KS 66045	Amateur radio: N0NZQ/AE
+-----+

-----  
Date: Mon, 15 Mar 1993 15:43:20 GMT  
From: usc!wupost!uwm.edu!linac!uchinews!ux1.cso.uiuc.edu!news.cso.uiuc.edu!usernet@network.UCSD.EDU  
Subject: Repair my HW-101??  
To: info-hams@ucsd.edu

In <21870022@hplvec.LVLD.HP.COM> bagdy@hplvec.LVLD.HP.COM (Mark Bagdy) writes:  
>I would like to know your opinion of fixing up my old HW-101.  
>  
>I built it in 1976. My dad has it now and is interested in getting it  
>"spruced up". It needs a few repairs, in addition to replacing the  
>old rubber belts.  
>  
>I've noticed some nice used rigs for about \$450. I wonder if it's worth  
>the repair? Does the HW-101 retain any "fossil value"?  
>  
>Can anyone recommend a reputable HW-101 repair tech.? Preferably in the  
>Long Island area. (MY dad's in Huntington, LI).  
>  
>Thanks for any inputs!

>  
>Mark  
>NOKFI

A few years ago I fixed a pair of SB301/SB400. I believe their design was similar to HW-101. The sensitivity was poor, and some bands did not work. Due to intermods, 40m was unusable at night. The receiver's dial had a backlash. I did the following:

1. adjusted coils in Xtal generator - all bands worked
2. Adjusted other coils, some cores broke. Had to replace them. After that, the transmitter gave full power
3. Added a single transistor (15 db) amplifier after the quartz filters. The apparent sensitivity was as in the best rigs, with no hiss and small signals readable without increasing AF gain.
4. Unscrewed and tightened the dial. The backlash disappeared.
5. Added a 10 to 30 db attenuator. 40 m was usable at night again.

Remaining glitches included:

- strong signals were breaking 2-5 KHz away through the 400 Hz CW. This was slightly annoying on 80m, but I have heard a great number of DX stations on 80m.

- The transmitter did not have a compressor, and therefore its signal had less punch than other transmitters of approximately the same power.

Summarizing, there was some work involved, but the result was great. If you like electronic projects, HW-101 might be a nice rig for you. I have sold mine and bought an IC-735 because I got a demanding job and piles of upgrade ideas for HW-101 would have had surely robbed me of any leisure time. Still, I feel nostalgia for HW-101 receiver (after modifications), which as good (except intermods on 40m) as IC-735 and surely did not have any PLL noise.

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Ignacy Misztal Ham radio: N09E, SP8FWB Internet: ignacy@uiuc.edu  
Bitnet: ignacy@uiucvmd.bitnet University Of Illinois 1207 W. Gregory  
Dr., Urbana, IL 61801, USA tel. (217) 244-3164 Fax: (217) 333-8286  
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Date: Sun, 14 Mar 93 02:20:27 GMT  
From: usc!cs.utexas.edu!zaphod.mps.ohio-state.edu!cis.ohio-state.edu!mstar!n8emr!

bulletin@network.UCSD.EDU  
Subject: SPACE BULLETIN 007 ARLS007  
To: info-hams@ucsd.edu

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|   Automatic relayed from packet radio via   |
|               N8EMR's Ham BBS, 614-895-2553   |
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ZCZC AS86  
QST DE W1AW  
SPACE BULLETIN 007 ARLS007  
FROM ARRL HEADQUARTERS NEWINGTON, CT  
MARCH 12, 1993  
RELAYED BY KB8NW/OBS & BARF-80 BBS  
TO ALL RADIO AMATEURS

SB SPACE ARL ARLS007  
ARLS007 STS-55 UPDATE

LATEST WORD FROM NASA IS THAT SHUTTLE MISSION STS-55 WILL BE  
LAUNCHED ON MARCH 21 AT 145 UTC. THE SAREX ANTENNA TESTS TAKE  
PLACE ON ORBIT 61, WHICH IS 3 DAYS, 18 HOURS AND 3 MINUTES AFTER  
LAUNCH, AND ORBIT 62, WHICH IS 3 DAYS, 19 HOURS AND 37 MINUTES AFTER  
LAUNCH.  
NNNN

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Date: Mon, 15 Mar 1993 18:36:01 GMT  
From: dog.ee.lbl.gov!overload.lbl.gov!agate!howland.reston.ans.net!gatech!concert!  
uvaarpa!murdoch!livia.acs.Virginia.EDU!jeg7e@network.UCSD.EDU  
Subject: Yaesu FT-530 vs. TH-28A  
To: info-hams@ucsd.edu

In article <1993Mar15.164229.18342@cbnewsm.cb.att.com> shz@garage.att.com (Seth  
Zirin, N2UCQ) writes:

>  
>I'm looking for a dual-band HT and have narrowed the choices to either  
>a Yaesu FT-530 or a Kenwood TH-28A. The FT-530 and accessories are cheaper.

I believe you mean the Kenwood TH-78A, the dual bander, not the 28A, the  
two meter micro-tiny?

>Both have illuminated keypads. Keypad numbers will be difficult to see  
>at night on the TH-28A because the keys are printed with letters and the  
>numbers are next to the illuminated keys. The FT-530 is not alphanumeric  
>and has the numbers on the faces of the keys.

>  
>The FT-530 offers more choices of midrange output power (5w, 2.5, 1w, 500mw)  
>than the TH-28A (5w, 500mw, 20mw or 2.5w, 500mw, 20mw).  
>  
>Several net-folk have recently mentioned the TH-28A but I've seen no comments  
>on the FT-530. Has anyone seen or used one?  
>  
>Comments Please.  
>

I'm very impressed with the large display and high intensity backlighting  
on the Yaesu. The illuminated remote control/LCD speaker microphone is  
fantastic, great sound, very very useful.

The radio is very small, much smaller than my ICOM W2A. user interface  
is Yaesu standard, easy to learn. Nice audio cues. What can I say?  
It's a great radio at a great price. More use will determine how well  
it works out intermod wise and such..

So far we're pleased with it.  
--

These opinions may not be unique, and they may not express the views of U.Va.

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| Jon Gefaell, Computer Systems Engineer \      /___ | SILENCE = DEATH  
| Security and Technology Planning R&D    \    /   / | Homophobia is a  
| I.T.C. Administrative Computing Services \  /   / | Social Disease!  
| The University, UVA. Carruthers Hall     \\/   /  | 73 de KD4CQY  
~~~~~\~~~~~
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"Great spirits have always encountered violent opposition from mediocre minds"  
-Albert Einstein

-----  
Date: Mon, 15 Mar 1993 16:42:29 GMT  
From: pacbell.com!att-out!cbfsb!cbnews!cbnewsm!garage.att.com!shz@network.UCSD.EDU  
Subject: Yaesu FT-530 vs. TH-28A  
To: info-hams@ucsd.edu

I'm looking for a dual-band HT and have narrowed the choices to either  
a Yaesu FT-530 or a Kenwood TH-28A. The FT-530 and accessories are cheaper.

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Several net-folk have recently mentioned the TH-28A but I've seen no comments on the FT-530. Has anyone seen or used one?

Comments Please.

Seth Zirin, N2UCQ

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Date: Mon, 15 Mar 1993 18:49:20 GMT  
From: usc!howland.reston.ans.net!gatech!mailer.cc.fsu.edu!geomag!  
zateslo@network.UCSD.EDU  
To: info-hams@ucsd.edu

References <1m7bck\$fpn@uxa.ecn.bgu.edu>, <103360159@hpfco.FC.HP.COM>,  
<1993Mar13.191255.8724@n8emr.cmhnet.org>  
Subject : Re: DESPERATE...NEED TO KNOW FACTS CONCERNING LEGALITY

In article <1993Mar13.191255.8724@n8emr.cmhnet.org> gws@n8emr.cmhnet.org (Gary Sanders) writes:

>In article <103360159@hpfco.FC.HP.COM> perry@hpfco.FC.HP.COM (Perry Scott) writes:

>>

>>It is legal for a ham to own an out-of-band radio because we do  
>>experimentation.

>

>This is silly..... what experimentation can you do out of band. Its  
>illegal to transmit out of band period. (ok except in an emergency).

>The TX out of band is just an effect of RX out of band.

>Even if he can modify for out of band TX he can not legally transmit  
>out of band even if he has a license for that band.

>--

You can run a transmitter on any frequency you want, as long as you  
\_don't radiate any power\_. One application of out-of-band transmit  
capability is with transverters -- for example, 28-30 MHz in,  
144-146 MHz out. There are other examples, especially with  
VHF <-> UHF transverters. (Of course, you shouldn't need much  
power to drive a transverter...)

It's up to us, the licensees, to see that we don't radiate anywhere  
but on our licensed frequencies. In return, we're allowed to own  
any crazy gear we want.

Ted Zateslo, W1X0  
zateslo@geomag.gly.fsu.edu

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End of Info-Hams Digest V93 #327

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